

1

## SEQUENCE LISTING

&lt;110&gt; Emtage, Peter C.R.

&lt;120&gt; METHODS OF IMMUNOTHERAPY AND DIAGNOSIS USING TARGETING OF CELLS THAT EXPRESS LAX

&lt;130&gt; HYS-67/PCT

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&lt;141&gt; NOT YET ASSIGNED

&lt;150&gt; 10/304,234

&lt;151&gt; 2002-11-26

&lt;150&gt; 10/128,558

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&lt;150&gt; 60/339,453

&lt;151&gt; 2001-12-11

&lt;160&gt; 8

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 2071

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (440)..(1636)

&lt;223&gt;

&lt;400&gt; 1

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ctccctgagc cactcactt ggaagcacca tgtccggatg agatcgact tcttgcagtg      240
ggcattagcc acgtccaggt agaaccaaac ctgttgcttt tgtatgttgg gtcaacttgg      300
cctgacgttt cagaggtaga cagagatag ggagttggaa gcaggatgtc cggatgagat      360
cgcacttcct gcagagggca ttatcgctccg agaaacttag aagctgaagc cagagagcat      420
ctcaaagggt cctgatata atg gat ggt gtc act cca acc ctt tcg aca atc      472
                Met Asp Gly Val Thr Pro Thr Leu Ser Thr Ile
                1                5                10

aga ggg agg acc ttg gag tcc agc act ctg cat gtg act ccc cgc agc      520
Arg Gly Arg Thr Leu Glu Ser Ser Thr Leu His Val Thr Pro Arg Ser
                15                20                25

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ctg gac aga aat aaa gac cag atc acc aac atc ttt tcc ggg ttt gcg Leu Asp Arg Asn Lys Asp Gln Ile Thr Asn Ile Phe Ser Gly Phe Ala 30 35 40	568
gga ctc ctc gcc atc ctc ctg gtc gtt gcg gtt ttc tgc atc ttg tgg Gly Leu Leu Ala Ile Leu Leu Val Val Ala Val Phe Cys Ile Leu Trp 45 50 55	616
aat tgg aat aaa cgg aag aag cga caa gtt cct tac ctc cga gtt acc Asn Trp Asn Lys Arg Lys Lys Arg Gln Val Pro Tyr Leu Arg Val Thr 60 65 70 75	664
gtc atg ccc ttg ctg act ttg cca caa acc aga caa aga gcc aaa aat Val Met Pro Leu Leu Thr Leu Pro Gln Thr Arg Gln Arg Ala Lys Asn 80 85 90	712
att tat gac atc ttg cct tgg cga cag gaa gac ctg ggg aga cat gag Ile Tyr Asp Ile Leu Pro Trp Arg Gln Glu Asp Leu Gly Arg His Glu 95 100 105	760
tcg agg agt atg cgc att ttc agt act gag agc ctc ctc tcc aga aat Ser Arg Ser Met Arg Ile Phe Ser Thr Glu Ser Leu Leu Ser Arg Asn 110 115 120	808
tct gag agc ccg gag cat gtg ccc tcc caa gca ggc aat gcc ttc cag Ser Glu Ser Pro Glu His Val Pro Ser Gln Ala Gly Asn Ala Phe Gln 125 130 135	856
gag cat aca gcc cac atc cat gcc aca gag tac gcg gtg ggt atc tat Glu His Thr Ala His Ile His Ala Thr Glu Tyr Ala Val Gly Ile Tyr 140 145 150 155	904
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ccc agt acc cag aag ctg gag ttt act gag gaa aga gat gag ggc tgt Pro Ser Thr Gln Lys Leu Glu Phe Thr Glu Arg Asp Glu Gly Cys 220 225 230 235	1144
gga gat gct ggt gac tgc acc agt ttg tat tct cca gga gct gag gac Gly Asp Ala Gly Asp Cys Thr Ser Leu Tyr Ser Pro Gly Ala Glu Asp 240 245 250	1192
agt gat tca ctc agc aat gga gaa ggt tct tct cag atc tca aat gac	1240

## 3

Ser Asp Ser Leu Ser Asn Gly Glu Gly Ser Ser Gln Ile Ser Asn Asp	
255 260 265	
tat gtc aac atg aca ggg ttg gat ctc agt gcc atc cag gaa agg cag	1288
Tyr Val Asn Met Thr Gly Leu Asp Leu Ser Ala Ile Gln Glu Arg Gln	
270 275 280	
ctc tgg gtg gct ttt cag tgc tgc aga gac tat gaa aat gtt cca gca	1336
Leu Trp Val Ala Phe Gln Cys Cys Arg Asp Tyr Glu Asn Val Pro Ala	
285 290 295	
gca gat ccc agt gga agc cag cag cag gct gag aaa gat gtg cca tcc	1384
Ala Asp Pro Ser Gly Ser Gln Gln Gln Ala Glu Lys Asp Val Pro Ser	
300 305 310 315	
tca aac ata ggt cat gtc gag gac aag aca gat gat ccc ggg acc cat	1432
Ser Asn Ile Gly His Val Glu Asp Lys Thr Asp Asp Pro Gly Thr His	
320 325 330	
gtc caa tgt gtc aaa agg aca ttc ctt gct tca ggg gat tat gca gac	1480
Val Gln Cys Val Lys Arg Thr Phe Leu Ala Ser Gly Asp Tyr Ala Asp	
335 340 345	
ttt cag cca ttc aca cag agt gag gac agt cag atg aaa cat aga gaa	1528
Phe Gln Pro Phe Thr Gln Ser Glu Asp Ser Gln Met Lys His Arg Glu	
350 355 360	
gag atg tca aat gag gac tcc agt gac tat gaa aat gtg cta act gcc	1576
Glu Met Ser Asn Glu Asp Ser Ser Asp Tyr Glu Asn Val Leu Thr Ala	
365 370 375	
aag tta gga ggc agg gac tct gag cag ggg cct ggc act cag ctc ctt	1624
Lys Leu Gly Gly Arg Asp Ser Glu Gln Gly Pro Gly Thr Gln Leu Leu	
380 385 390 395	
cct gat gaa tga agaccaggt acccagccat aaagccacat tgagtagtct	1676
Pro Asp Glu	
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<210> 2  
 <211> 398  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 2

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Glu Ser Ser Thr Leu His Val Thr Pro Arg Ser Leu Asp Arg Asn Lys
20      25      30

Asp Gln Ile Thr Asn Ile Phe Ser Gly Phe Ala Gly Leu Leu Ala Ile
35      40      45

Leu Leu Val Val Ala Val Phe Cys Ile Leu Trp Asn Trp Asn Lys Arg
50      55      60

Lys Lys Arg Gln Val Pro Tyr Leu Arg Val Thr Val Met Pro Leu Leu
65      70      75      80

Thr Leu Pro Gln Thr Arg Gln Arg Ala Lys Asn Ile Tyr Asp Ile Leu
85      90      95

Pro Trp Arg Gln Glu Asp Leu Gly Arg His Glu Ser Arg Ser Met Arg
100     105     110

Ile Phe Ser Thr Glu Ser Leu Leu Ser Arg Asn Ser Glu Ser Pro Glu
115     120     125

His Val Pro Ser Gln Ala Gly Asn Ala Phe Gln Glu His Thr Ala His
130     135     140

Ile His Ala Thr Glu Tyr Ala Val Gly Ile Tyr Asp Asn Ala Met Val
145     150     155     160

Pro Gln Met Cys Gly Asn Leu Thr Pro Ser Ala His Cys Ile Asn Val
165     170     175

Arg Ala Ser Arg Asp Cys Ala Ser Ile Ser Ser Glu Asp Ser His Asp
180     185     190

Tyr Val Asn Val Pro Thr Ala Glu Glu Ile Ala Glu Thr Leu Ala Ser
195     200     205

Thr Lys Ser Pro Ser Arg Asn Leu Phe Val Leu Pro Ser Thr Gln Lys
210     215     220

```

5

Leu Glu Phe Thr Glu Glu Arg Asp Glu Gly Cys Gly Asp Ala Gly Asp  
 225 230 235 240

Cys Thr Ser Leu Tyr Ser Pro Gly Ala Glu Asp Ser Asp Ser Leu Ser  
 245 250 255

Asn Gly Glu Gly Ser Ser Gln Ile Ser Asn Asp Tyr Val Asn Met Thr  
 260 265 270

Gly Leu Asp Leu Ser Ala Ile Gln Glu Arg Gln Leu Trp Val Ala Phe  
 275 280 285

Gln Cys Cys Arg Asp Tyr Glu Asn Val Pro Ala Ala Asp Pro Ser Gly  
 290 295 300

Ser Gln Gln Gln Ala Glu Lys Asp Val Pro Ser Ser Asn Ile Gly His  
 305 310 315 320

Val Glu Asp Lys Thr Asp Asp Pro Gly Thr His Val Gln Cys Val Lys  
 325 330 335

Arg Thr Phe Leu Ala Ser Gly Asp Tyr Ala Asp Phe Gln Pro Phe Thr  
 340 345 350

Gln Ser Glu Asp Ser Gln Met Lys His Arg Glu Glu Met Ser Asn Glu  
 355 360 365

Asp Ser Ser Asp Tyr Glu Asn Val Leu Thr Ala Lys Leu Gly Gly Arg  
 370 375 380

Asp Ser Glu Gln Gly Pro Gly Thr Gln Leu Leu Pro Asp Glu  
 385 390 395

<210> 3  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 3  
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 Ile Leu Trp

<210> 4  
 <211> 40

6

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 4

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Met Asp Gly Val Thr Pro Thr Leu Ser Thr Ile Arg Gly Arg Thr Leu
1          5          10          15
Glu Ser Ser Thr Leu His Val Thr Pro Arg Ser Leu Asp Arg Asn Lys
          20          25          30
Asp Gln Ile Thr Asn Ile Phe Ser
          35          40

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&lt;210&gt; 5

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

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Cys Arg Asp Asp Glu Gln Gly Pro Gly Thr Gln Leu Leu Pro Asp Glu
1          5          10          15

```

&lt;210&gt; 6

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6

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Met Asp Gly Val Thr Pro Thr Leu Ser Thr Ile Arg Gly Arg Thr Cys
1          5          10          15

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&lt;210&gt; 7

&lt;211&gt; 24

&lt;212&gt; DNA

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Description of artificial sequence: forward primer

&lt;400&gt; 7

ccatcctcct ggctggttgcg gttt 24

&lt;210&gt; 9

&lt;211&gt; 25

&lt;212&gt; DNA

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Description of artificial sequence: reverse primer

&lt;400&gt; 8

ttcctgtcgc caaggcaaga tgtca 25